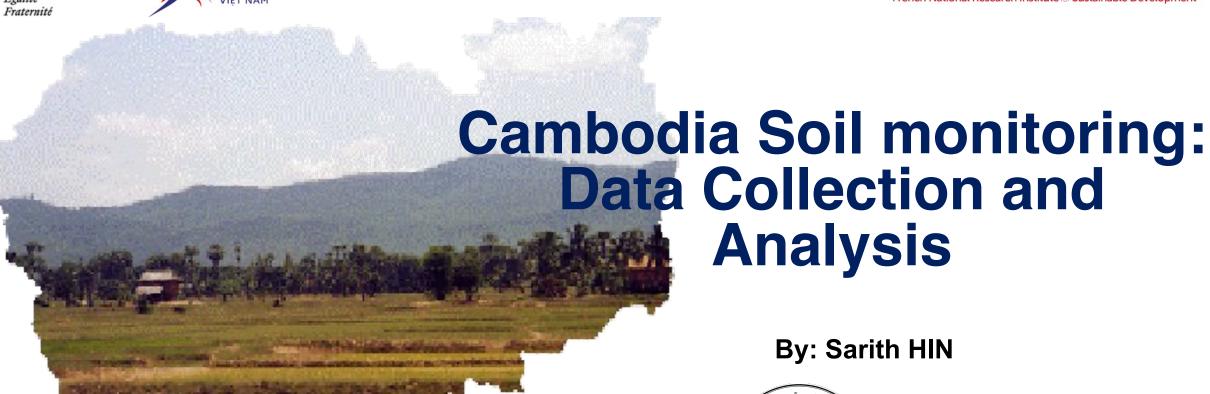




OHSEA, What's Next? Colloquium

USTH University, Hanoi, 23-27 April 2023







Cambodian Agricultural Research and Development Institute (CARDI)

Site Selection

The resources used to guide soil sampling site:

- Rice soils map (Oberthur et al. 2000)
- Geology map (MRC)
- Digital elevation models (MRC)
- US Army Corp topography maps (1:50,000; 1967)
- Digital ortho-rectified aerial photographs
 (Department of Geography 1:50,000: 1992).

Soil sampling and data collection

1, Making Soil Pits: Making soil pit with 0.6-1.2m depth.

2, Auger Coring:

Soil cores of about 60 - 80 cm in depth were taken out and analyzed for their variations in soil texture, color etc.

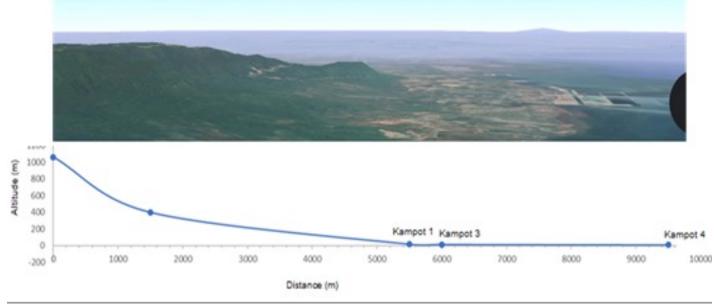


Data to be collected

1. Site information data:

- Location and Identification: GPS coordinate, Village, Commune, District, etc.
- Landscape features: slope class, landform pattern,
- Land use: Crop types





Data to be collected

2. Soil physical data

In the field: Soil texture, colour, structure.

In in the lab: PSA, Bulk density, water holding capacity, bulk density.

3. Soil chemical data

In the field: pH (soil test kid)

In the Lap: pH, EC, C, N, P, K, CEC, Al.





Data Storage

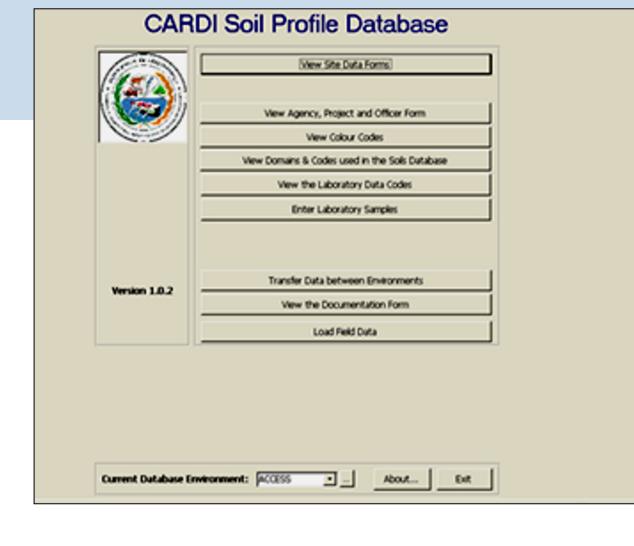
Cambodian Soil database system:

All site information and soil data are stored in the **CARDI Soil Database System** in CARDI.

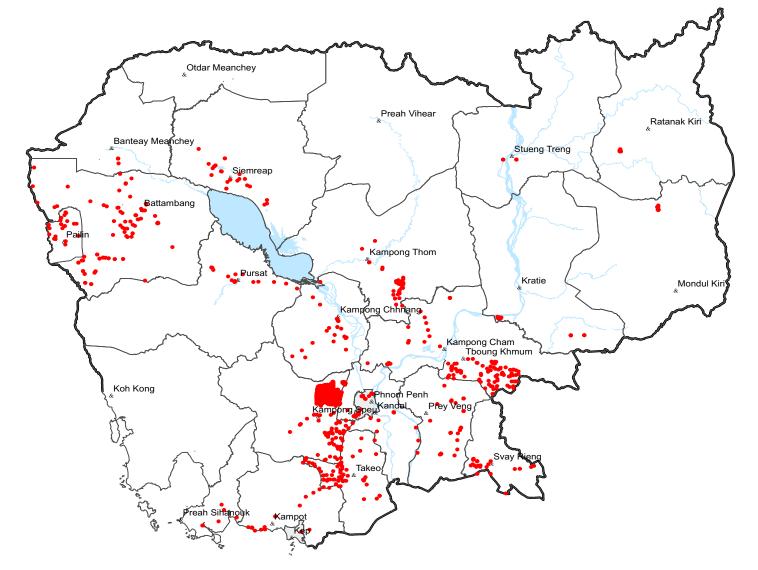
* After every data entry, the database have to be unloaded on G-drive.

At the present soil data of > 2,200 sites are stored in the soil database.

- Around 500 sites were collected by CARDI.
- Remaining sites by other organizations.



Location of Soil data collection Sites



Map of Cambodia showing locations of soil data collection sites

Photos of soil sampling and data collection activities









THANK YOU FOR YOUR ATTENTION